



**SECTION 1 - Product Information**

**Product Identifier:** 1011 Fault-Finder Cleaner Group 1A  
**Product Use:** Cleaner  
**Manufacturer's Name:** Aervoe Industries Inc.  
**Address:** 1198 Mark Circle, Gardnerville, NV 89410  
**Emergency Phone:** 1-800-424-9300

**SECTION 2 - Hazardous Ingredients**

Hazardous Ingredients	Weight %	CAS Number	LD <sub>50</sub> of Ingredient (species & route)	LC <sub>50</sub> of Ingredient (species)
Trichloroethylene		79-01-6	4920 mg / kg (Rat-Oral) 10,000 mg / kg (Rabbit-Skin)	12,500 ppm / 4 hr (Rat)
Propane	7 - 13	74-98-6	N / AV	N / AV
n-Butane	3 - 7	106-97-8	N / AV	N / AV
Isobutane	1 - 5	75-28-5	N / AV	57 pph / 15 min (Rat)

**SECTION 3 - Physical Data**

**Physical State:** Aerosol  
**Boiling Point:** N / AP  
**Vapor Density (air = 1):** Heavier than air  
**Odor and Appearance:** Ether-like odor / Clear and colorless  
**Coefficient of Water/Oil Distribution:** N / AV

**Specific Gravity:** 1.1  
**Freezing Point:** N / AV

**Evaporation Rate:** Faster than n-Butyl Acetate  
**pH:** N / AP  
**Vapor Pressure (psig):** 20 - 30  
**Odor Threshold (ppm):** 80

**SECTION 4 - Fire and Explosion Data**

**Flammability:** Yes - Flammable aerosol under conditions of sparks, flame, or excessive heat.  
**Means of Extinction:** *Extinguishing Media* - Carbon dioxide, foam, dry chemical. *Firefighting Procedures* - Treat as cylinders of compressed gas. Closed containers may rupture due to pressure build up from extreme temperature. Use water spray to cool containers to prevent pressure build up. Self-contained breathing apparatus should be used if product is involved in fire.  
**Flashpoint:** < 0° F (-18° C)      **Method Used:** Estimated      **Flammable Limits - LFL:** 1.8%      **UFL:** 10.5%  
**Autoignition Temperature:** N / AV  
**Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide, Hydrogen Chloride, and possible traces of Phosgene.  
**Explosion Data - Sensitivity to Mechanical Impact:** No      **Explosion Data - Sensitivity to Static Discharge:** No

**SECTION 5 - Reactivity Data**

**Chemical Stability:** Stable  
**Reactivity & Conditions:** None

**Incompatibility with Other Substances:** Strong oxidizing agents.  
**Hazardous Decomposition Products:** None

**NOTE:** N / AP = Not Applicable N / AV = Not Available

**Primary Routes of Entry:** Skin Contact, Eye Contact, Inhalation  
**Effects of Acute Exposure to Product:**  
*Skin Contact* - Irritation.  
*Eye Contact* - Irritation.  
*Inhalation* - Irritation. May cause dizziness, light-headedness and / or headaches.  
**Effects of Chronic Exposure to Product:** Dermatitis.

**Exposure Limits (TLV):**

Trichloroethylene 50 ppm TWA and 100 ppm STEL - ACGIH 2005  
 Propane 2500 ppm TWA - ACGIH 2005  
 n-Butane 800 ppm TWA - ACGIH 2005  
 Isobutane N / AV - ACGIH 2005

**Irritancy:** Skin, eyes, and respiratory tract.

**Sensitization:** N / AV

**CARCINOGENICITY:** Trichloroethylene is not listed as a human carcinogen by OSHA. It is listed by ACGIH as TLV-A5, "Not suspected as a Human Carcinogen"; by NTP as R "Reasonably Anticipated To Be A Human Carcinogen"; by IARC as 2A "Probably Carcinogenic to Humans". The remaining ingredients are not listed as a human carcinogen by OSHA, ACGIH, NTP, or IARC.

**Reproductive Toxicity:** N / AV      **Teratogenicity:** N / AV      **Mutagenicity:** N / AV      **Synergistic Products:** N / AV

**SECTION 7 - Preventive Measures**

**Personal Protective Equipment (PPE):** Gloves - Yes Respirator - Yes Eye - Yes Footwear - No Clothing - No Other - No  
*Skin Protection* - Chemical resistant gloves such as Neoprene or Nitrile rubber.  
*Respiratory Protection* - In areas with poor ventilation, use a NIOSH approved Organic Vapor Cartridge Respirator. For concentrations above the TLV (as defined in Section 6), use a positive air supplied respirator.  
*Eye Protection* - Safety glasses or goggles.  
**Engineering Controls:** General ventilation to maintain exposure limits below TLV's as defined in Section 6.  
**Leak and Spill Procedure:** Remove all sources of ignition. Ventilate area. Prevent from entering a watercourse. Use an inert absorbent material and non-sparking type tools.  
**Waste Disposal:** Dispose of in accordance with local, state/provincial or territorial, and federal regulations. Do not incinerate closed containers.  
**Handling Procedures and Equipment:** Do not use near heat, sparks, or open flame. Use PPE as defined in Section 7.  
**Storage Requirements:** Do not store near heat, sparks, flame or above 120° F (49° C).  
**Special Shipping Information:** Consumer Commodity ORM-D.

**SECTION 8 - First Aid Measures**

**Inhalation:** Remove from exposure, seek medical attention if signs/symptoms persist.  
**Ingestion:** Do NOT induce vomiting, drink plenty of water, seek medical attention.  
**Skin Contact:** Wash affected area with soap and water, remove contaminated clothing, seek medical attention if irritation persists.  
**Eye Contact:** Flush immediately with water for 15 minutes, seek medical attention if irritation persists.

**SECTION 9 - Preparation Information**

**Prepared by:** Technical Department      **Telephone Number:** 775-782-0100      **Preparation Date:** 6-27-08

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